Appendix D Field Collection Forms

SEDIMENT CORE COLLECTION FORM

Windward Sedin	nent Core	Collection For	rm	_
Project:		Location ID:		Page of
Date:	_	Attempt No.:		
Weather:	-	Core Type: Intertid	al Subtidal Shoali	na
Logged By:	-	Field Staff:	ai Gabiidai Gillean	9
	-	1 lold Otalli		
Field Collection Coordinates: Lat/Northing:	_	Long/Easting:		
A. Water Depth	R Water Le	wol Moseuromonte	C. Mudline Elevation	o (ff MI I \A/\
		vei Measurements	C. Mudilile Lievation	I (IL IVILLAA)
DTM Depth Sounder: DTM Lead Line:	Time:			
DTW Lead Line.	Height: Source:		Pooryony Moosyrom	ante (prior to oute)
	Source.		Recovery Measureme	ents (prior to cuts)
Core Collection Recovery Details	:		† 🗔	
1. Core Tube Length:			3	
2. Penetration Depth:		-		
3. Headspace Measurement:		-	Core	e Sections To Process:
4. Recovery Depth:		-		
5. Recovery Percentage:		-		
6. Core Accepted: Yes / No		-		
·		_	B:	
Drive Notes:			ー	
			D:	
			\downarrow	
Shoe Description:				
•				
		Sediment type moisture	e, color, minor modifier, MA	IOR modifier other
Core Field Observations and Des	cription:		n, layering, anoxic layer, de	
Notes:				

SEDIMENT CORE PROCESSING FORM

\X/i	nd	war	d	Sediment Core Processing Form	
Projec	nd ct:	vironmen	tal LLC	Core Type: Intertidal Subtidal Shoal	ing
Date:				Penetration Depth:	
Proce	ssec	By:	ı	Compacted Depth:	
Locat				Compaction-Correction Factor:	
Attem	pt N	o.:			
Recovery Depth	Correction Depth	Sample ID		Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents sheen, layering, anoxic layer, debris, plant matter, shells, biota)	, odor,

Page____ of ____



SURFACE SEDIMENT COLLECTION FORM

Project Name:				Proje	ct no.:				
Date:				We	ather:				
C P 14 ()					C				
					·				
GRAB DATA	Location ID:								
Latitude/Northing(Y):				Longitude	/Easting(X):			
Grab time	Water depth (m)	Penetrat depth (c	-	Acceptable grab (Y/N)	Comments				
SAMPLE DATA	Sample ID:								
Pre-homogenization	on analyses (cire	cle): VO	0 8	Sulfides Ami	monia AV	/S/SEM TPH-P Other:			
Sediment type	Sediment colo	r	Sedi	ment odor		Comments:			
cobble	brown surface		none	e F	H ₂ S				
gravel	drab olive		sligh	t p	etroleum				
sand (F M C)	brown		mod	moderate other:					
silt	gray		stron	ng					
clay	black								
GRAB DATA	Location ID:								
Latitude/Northing(Y):				Longitude	/Easting(X):			
Grab time	Water depth (m)	Penetrat depth (c		Acceptable grab (Y/N)		Comments			
SAMPLE DATA	Sample ID:								
Pre-homogenization	on analyses (cire	cle): VO	2 8	Sulfides Ami	monia AV	/S/SEM TPH-P Other:			
Sediment type	Sediment colo	r	Sedi	ment odor		Comments:			
cobble	brown surface		none	e F	H ₂ S				
gravel	drab olive		sligh	t p	etroleum				
sand (F M C)	brown		mod	erate d	other:				
silt	gray		stron	ng					
clay	black				_				

BANK SOIL COLLECTION FORM

Project Name/Number:	Weather:						
Date:							
Sampling Method:							
Bank ID:	Composite Sample ID:	Composite Sample ID:					
Location ID:	Sample Time:	Sample Depth:					
Location Description (coordinates or distances from landma	rks; slope, elevation, proximity of three sam	pples):					
Sample Description (i.e., including grain size, color, odor):							
Comments:							
Location ID:	Sample Time:	Sample Depth:					
Location Description (coordinates or distances from landma		l pples):					
Sample Description (i.e., including grain size, color, odor):							
Comments:							
Location ID:	Sample Time:	Sample Depth:					
Location iD:	Sample Time:	Sample Depth:					
Location Description (coordinates or distances from landma	rks; slope, elevation, proximity of three sam	pples):					
Sample Description (i.e., including grain size, color, odor):							
Comments:							

PROTOCOL MODIFICATION FORM

Project Name and Number:	
Material to be Sampled:	
Measurement Parameter:	
Standard Procedure for Field Collection & Laboratory Ar	nalysis (cite reference):
Reason for Change in Field Procedure or Analysis Variati	ion:
Variation from Field or Analytical Procedure:	
Special Equipment, Materials or Personnel Required:	
	_
Initiator's Name:	Date:
Project Officer:	Date:
QA Officer:	Date:

of			СПА	IIIN-OF-	COSTOL	ו/זע	E3 I	KEŲ	UES) I F	UKI	VI		
Project/Client Nan	ne:				Ship			No.						
Project Number:									:	Shipping	Date:			
Contact Name:					Ship	per:						Airbill Nu	umber:	
Sampled By:					Form filled out by:						-	Turnarou	und requested:	
							Test(s) F	Requeste	d (check	test(s) red	quired)		_	
Sample Collection Date (m/d/y)	Time	Sample Ider	ntification	Volume of Sample / # of Containers	Matrix								Comments / Instructions [Composite/Bag ID]	
	1	otal Number of (Containers		Purchase Order / Statement of Wor									
1) Released by:			1) Rec'd by:			2) Release					2) Re	Rec'd by:		
Print name:			_		Print name:									
Signature:			Company:		Signature:					Co	Company:			

Date/Time:

 $[\]ensuremath{^{\star}}$ Distribution: White copies accompany shipment; yellow retained by consignor.



Date/Time:

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date/Time:

To be completed by Laboratory upon sample receipt:

Date/Time:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

D-2 Geotechnical Field Forms

Boring	Location	on:							Job Logge	Date	Sheet Job No. Weather	of
Elevati	ion:				Datum	ı:			Samp	ype/ Method ling Method m of Boring	ATD Water Level De	epth
	Vell Ins	tall.		Yes		No						
S	SIZE (%	6)		DEF	PTH	SAM	1PLE					
G Max.	S Range	F Att.	PID or other	From		Туре	Number	SAMPLE RECOVERY	netrat	DESCRIPTION: Den., moist., color, minor, MAJOR CONSTITUENT, NON-SOIL SUBSTANCES: Odor, staining, sheen, scrag, slag, etc.	REMARKS: Drill action, drill and sample procedures, water conditions, heave, etc.	SUMMARY LOG (Water & Date)
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								9—			_	\pm
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Boring	Location	on:							Job Logge	ed By	Date	Sheet Job No. Weather	of
									Drille Drill T	ype/ Method			
Elevat	ion:				Datum	1:			Samp Botto	oling Method m of Boring		ATD Water Level De	pth
	Vell Inst	tall.		Yes		No						_	· ·
5	SIZE (%	(o)	<u>.</u> .	DEF	PTH	SAM	1PLE	≿	⊆ m				
G Max.	S Range	F Att. Limits	PID or other	From	То	Туре	Number	SAMPLE RECOVERY	Penetration Resistance	minor, MAJOR (STANCES: Odor,	REMARKS: Drill action, drill and sample procedures, water conditions, heave, etc.	SUMMARY LOG (Water & Date)
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Vane Shear Log Form

Project:	
Location:	
Technician:	

ear Log Form	<u>Vane Diameter</u>	Vane constant (α)
roject:	16mm (0.63")	2
cation:	20mm (0.78")	1
nician:	25.4mm (1")	0.5
Date:	65mm (2.56")	0.029

 $S_U = \alpha \times Scale$



Horizontal Datum:

	Coord	inates			Test Depth		Vane	Undrain Streng	ed Shear th (S _U)		est	
Test Location ID	Easting	Northing	Test Time	Water Depth in feet	below Mudline in feet	Vane Diameter in mm	Scale Reading in kPa	in kPa	in lbs/ft²	Pea Resid	k [P] ual [R]	Notes
										Р	R	
										Р	R	
										Р	R	
										Р	R	
										Р	R	
										Р	R	
										Р	R	
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										Р	R	
										Р	R	
										Р	R	
										Р	R	
										Р	R	

Note - 1 kPa = 20.89 psf

ANCHOR QEA **Dynamic Cone Penetrometer Field Form Location ID Project Name** Lat/Northing (Y) **Project Number** Lon/Easting (X) Date **Horizontal Datum Field Staff Vertical Elevation Vertical Datum Depth to Water** Reading Depth Reading Depth Depth Reading ft blows ft blows ft **Blows** cm cm cm Notes:

D-3 Survey Field Forms

Shoreline Visua	al Inspection Field Form		ANCHOR QEA
Project Name		Field Personnel	
Project Number		Page	of
Date		Time	
General Feature Description			
GPS Location		Location I.D.	
	Book to the c	Water	Feature Height Above
	Description	Depth	Water
Location 1			
Location 2			
Location 3			
Location 4			
Location 5			
Location 6			
Bank Condition	Good Fair Poor	Sloped	Vertical
Visible Substrate Type Notes	Riprap Gravel Sand Silt/Clay Debris	S Vegetation	Other
Photograph Log	Description		GPS Location



FACILITIES CONDITION ASSESSMENT REPORT

Sediment Cleanup of Upper Reach of Lower Duwamish Waterway

Facility Name:	
Facility Location:	
Asset Type:	
Use:	
Inspection Date:	
Inspected By:	

General Conditions, Evaluations and Recommendations:

Example Heading

- Item description
 - o Recommendation:
- Item description (photo #-#)

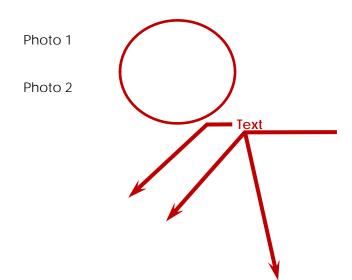
Example Heading

- Item description (photo #-#)
- Item description (photo #-#)

Compiled List of Deficiencies:

Date: Evaluation By:

PHOTOGRAPHS



Sediment Cleanup	of Upper Read	ch of Lower	Duwamish	Waterway
Facility:				

Date: Evaluation By:

PHOTOGRAPHS

Photo 3

Photo 4

Sediment Cleanup	of Upper Read	ch of Lower	Duwamish	Waterway
Facility:				

Date: Evaluation By:

PHOTOGRAPHS

Photo 5

Photo 6

WOOD MATERIAL VISUAL INSPECTION CHECKLIST

Debris Buildup
Structural Defects

Moss

	1A – F	Exposure	1B – Soils (Foundation Conditions)			
TAL		Environment (Marine, Freshwater, Industrial, etc.)	Expansive soil			
ON ON		Freezing and thawing	Compressive soil (settlement)			
		Wetting and drying	Evidence of pumping			
IRO ND		Drying under dry atmosphere	Scour			
1. ENVIRONMENTAL CONDITION		Chemical corrosion and attack (Sulfates, Acids, Bases, Chloride, Gases)				
-		Abrasion, erosion, impact				
		Heat from adjacent sources				
S S		Cracking or breakage				
RES		Rot and decay				
IST		Surface deposits				
2. DISTRESS INDICATORS		Termite or Pest Infestation (Borer)				

Settlement		Deflection		Expansion	Contraction	
3B – Surfac	ce Condition				·	
	Excellent	New or near-ne	w cond	ition: no issues to re	port. No loss of cross section.	
	Good	Good condition	: no rep	orted issues or conc	erns. Less than 5% loss of cross section	
General	<u>Fair</u>	Average wear; i	Average wear; not new but no issues to report. Between 5% - 20% cross se			
Condition	<u>Poor</u>	Worn from use:	of cross section.			
	Critical	Extremely worn or damaged: Between 50% - 80% loss of cross section.				
Finished sur	faces					
Cracking						
Loss of Mat	erial					
Missing or broken member						
Fasteners: C	Corrosion					
Soft timber and decay Abrasion						
Previous Re	pair					
Surface Coa	urface Coatings, Protective Systems					

STEEL MATERIAL VISUAL INSPECTION CHECKLIST

Debris Buildup
Structural Defects

Moss

	1A – F	Exposure	1B – Soils (Foundation Conditions)			
TAL		Environment (Marine, Freshwater, Industrial, etc.)	Expansive soil			
O E		Freezing and thawing	Compressive soil (settlement)			
N		Wetting and drying	Evidence of pumping			
IRO ND		Drying under dry atmosphere	Scour			
1. ENVIRONMENTAL CONDITION		Chemical corrosion and attack (Sulfates, Acids, Bases, Chloride, Gases)				
-		Abrasion, impact				
		Heat from adjacent sources				
S S		Member cracking or breakage				
RES		Staining, corrosion				
DISTRES		Surface deposits				
2. DISTRESS INDICATORS		Weld cracking or breakage				

~ <u>Z</u>	Weid	cracking of brea	Kage	<u> </u>				
	3A - Overal	ll Apparent Alig	nment of Structure					
	Settle	ment	Deflection					
	3B – Surfac	e Condition						
되		<u>Excellent</u>	New or near-new	condi	tion: no issues to report. No loss of cross section.			
J. C.		Good	Good condition:	Good condition: no reported issues or concerns. Less than 5% loss of cross section.				
CI	General Condition	<u>Fair</u>	Average wear; no	Average wear; not new but no issues to report. Between 5% - 20% cross section.				
STRUCTURE	Collation	<u>Poor</u>	Worn from use: Between 20% - 50% loss of cross section.					
		Critical	Extremely worn	or dam	aged: Between 50% - 80% loss of cross section.			
3. PRESENT CONDITION OF	Finished sur	faces						
	Cracking							
Ē	Rust and sca	ale						
Į	Loss of Mat	erial						
II (Missing or broken member							
EN	Stains	Stains						
SES.	Corrosion							
[E	Abrasion							
<u></u>	Previous Re	pair						
	Surface Coa	tings						

CONCRETE MATERIAL VISUAL INSPECTION CHECKLIST

1A -	- Exposure	1B – Drainage	1C – Soils (Foundation Conditions
	Environment (Marine, Freshwater, Industrial, etc.)	Flashing	Expansive soil
	Freezing and thawing	Joint sealants	Compressive soil (settlement)
	Wetting and drying	Weepholes	Evidence of pumping
	Drying under dry atmosphere	Contour	Scour
	Chemical corrosion and attack (Sulfates, Acids, Bases, Chloride, Gases)	Elevation of drains	
	Abrasion, erosion, cavitation, impact		
	Heat from adjacent sources		

SSS RS	Cracking or Breakage
'RES FOR	Staining
IST CA7	Surface deposits and exudations
2. D INDI	Leaking

3A - (3A - Overall Apparent Alignment of Structure									
Settlement		Deflection	Expansion		Contraction					
3B - S	3B – Surface Condition									
		<u>Excellent</u>		New or near-new condition: no issues to report. No loss of cross section.						
		Good		Good condition: no reported issues or concerns. Less than 5% loss of cross section.						
General <u>Fair</u>				Average wear; not new but no issues to report. Between 5% - 20% cross section.						
Condition		<u>Poor</u>		Worn from use: B	Worn from use: Between 20% - 50% loss of cross section.					
<u>Critical</u> Extremely worn or					damaged: Between 50% - 80% loss of cross section.					

Formed and finished surfaces					
Cracking					
Scaling					
Spalls, pop outs, and delar	nination				
Stains, Efflorescence					
Exposed Reinforcement: 0	Corrosion				
Curling and warping					
Erosion					
Previous Patching or Othe	r Repair:				
Surface Coatings, Protective Systems, Linings, Toppings					
Penetrating Sealers					
Signs of Past Overflow on Rungs and Walls					
Debris Buildup					
Exposed Aggregate					
Leaks through Walls					
Structural Defects					
Moss					

3. PRESENT CONDITION OF STRUCTURE